

Product datasheet for **RN207471**

Kcnd1 (NM_001105748) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnd1 (NM_001105748) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnd1
Synonyms:	Kv4.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207471 representing NM_001105748
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGGTGTGCCACATGGCTACCATTTGCAAGGCTGCAGCAGTGGCTGGCTGCCCTTAGCCC
 AGCAGCCCTACCCCAGCACCCGAGGTGAAGGCATCCCGAGGGATGAGGTTCTGGTGGTGAACGTGAG
 TGGTCGGCGCTTTGAAACCTGGAAGAACACGCTGGATCGTACCCAGACACATTGCTAGGCAGCTCAGAG
 AAGGAATCTTCTATGATGCTGAATCTGGCGAGTACTTCTTTGATCGTGACCCTGACATGTTCCGGCACG
 TGCTGAACTTTTATCGCACAGGCCGACTACACTGCCCCAGGCAGGAGTGCATCCAGGCCCTTTGATGAGGA
 GCTAGCCTTCTATGGCTTAGTCCAGAGCTTGTGGTACTGCTGCTTTGAAGAGTATAGGGACCGCAAG
 AAGGAGAATGCAGAGCGCTGGCAGAAGATGAGGAGGCCGAGCAGGCCGGGAAGGTCCAGCCCTCCAG
 CAGGCAGCTCCCTGCGACAGCGACTCTGGAGGGCCTTTGAAAACCCACACACAAGCACTGCAGCACTGGT
 TTTCTACTATGTACTGGCTTCTTTATAGCTGTGTGAGTATTGCCAACGTAGTGGAGACCATCCCATGC
 CGTGGTCTGCACGGTGGCCACAAAAGAGCAGCCGTGTGGTGACCGCTTCCCTACAGCCTTTTTCTGTA
 TGGACACGGCCTGTGTGCTCATATTCACCGGGGAATACCTTCTGCGGCTTTTTGCAGCCCCAGCCGTTG
 CCGCTTCTGCGTAGTGTATGAGCCTCATCGATGTGGTGGCCATCCTGCCCTACTACATTGGGCTTTTT
 GTGCCAAGAACGATGACGTCTCTGGTGCTTTGTACCCTACGTGTGTTTCGGGTCTTCCGAATCTTCA
 AGTTCTCCAGGCACTCCCAGGGCTTGGGATTCTGGGCTACACCCCAAGAGCTGTGCTTCCGAGCTAGG
 CTCTCTCTTTTTCCCTCACCATGGCTATCATCATCTTTGCCACTGTGATGTTCTATGCTGAGAAGGGC
 ACCAGCAAGCAACTTCACAAGCATCCCTGCTGCCTTCTGGTATACCATTGTCACCATGACCACACTTG
 GGTATGGCGACATGGTGCCTAGCACCATCGCAGGCAAAAATTTTTGGGTCCATCTGCTCACTTAGTGGTGT
 CTTGGTCATTGCCTTGCCTGTACCAGTATTGTGTCTAACTTCAGCCGTATATACCACCAGAACCAGCGT
 GCTGACAAGCGCCGAGCAGCAGAGAAGGTACGCCCTGGCAAGAATCCGGTTGGCAAAGAGTGTACCACCA
 ACGCCTTCTTGCAGTATAAGCAAAATGGGGCCTTGAGGACAGTGGCAGTGGGAGGGACAGATGCTGTG
 CGTTAGGAGCCGCTCTGCTTTCGAACAACAGCATCACCATCTGCTGCATTGTTGGAGAAGACTACGTGT
 CATGAGTTCACAGACGAGCTCACTTTCAGTGAGGCCCTTGGAGCTGTCTCACTGGGTGGTGCACCAGCC
 GCAGTACCTCAGTATCATCCAGCCAATGGGCCTGGGAGCCTGTTTTATCCTGCTGCTCTAGAAGGGG
 AGAGCGCAGAGCCATCCGCTTGGCAACTCTACTGCGTCTGTGAGCCGTGGCAGCATGCAGGAGCTAGAC
 AACTAGCGGGTCTTCGGAGGAGCCCTGCCCTCAGAGCCGCTCAAGCCTCAATGCCAAGCCCCATGACA
 GCCTTGACCTGAACTGTGAGAGCCGGGACTTCGTGGCTGCCATCATCAGTATCCCACCCCTCTGCCAA
 CACGCCAGATGAGAGTCAACCTTCTCCCTGGTGGCGGTGGCAGTGGTGGCATGGCTAACACCACCCCT
 AGGAACTCCAGCTTGGCTACTCCGTGCCTCCTCCCTGAGACTGTCAAGATCTTCCCT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001105748
- Insert Size:** 1953 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001105748.1](#), [NP_001099218.1](#)

RefSeq Size: 3712 bp

RefSeq ORF: 1953 bp

Locus ID: 116695

Cytogenetics: Xq12

Gene Summary: human homolog is a voltage-gated potassium channel responsible for inactivating (A-type) currents in the heart and neurons [RGD, Feb 2006]